

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (Original) A data protection apparatus for protecting data in a storage volume in a computer system, with said computer system comprising said storage volume assigned for storing data, a computer for reading and writing data from and to said storage volume, and a storage control unit for controlling communication between said computer and said storage volume, wherein said data protection apparatus comprises:

an event detection unit for detecting an event occurrence; and

a path disconnection unit for instructing said storage control unit to stop communication between said computer and said storage volume, when said event detection unit detects an event.

2. (Original) A data protection apparatus according to Claim 1, wherein:

said computer system further comprises an illegal intrusion detection unit for detecting an illegal intrusion against said computer;

said event detection unit receives a detection of the illegal intrusion from said illegal intrusion detection unit; and

when said event detection unit receives the detection of the illegal intrusion, said path disconnection unit instructs said storage control unit to stop communication between said computer and said storage volume.

3. (Original) A data protection apparatus according to Claim 1, wherein:

said computer system further comprises a computer virus detection unit for detecting a computer virus in said storage volume;

said event detection unit receives a detection of the computer virus from said computer virus detection unit; and

when said event detection unit receives the detection of the computer virus, said path disconnection unit instructs said storage control unit to stop communication between said computer and said storage volume.

4. (Currently Amended) A data protection method for protecting data in a storage volume in a computer system, with said computer system comprising said storage volume assigned for storing data, a computer for reading and writing data from and to said storage volume and a storage control unit for controlling communication between said computer and said storage volume, wherein said data protection method comprises steps of:

detecting an event occurrence; and

~~instructing said storage control unit disconnecting a path to stop~~
communication between said computer and said storage volume, when said event is detected.

5. (Currently Amended) A program for making an information processing apparatus perform data protection of a storage volume in a computer system, with said computer system comprising said storage volume assigned for storing data, a computer for reading and writing data from and to said storage volume, and a storage control unit for controlling communication between said computer and said storage volume, wherein said program makes said information processing apparatus perform processes of:

detecting an event occurrence; and

~~instructing said storage control unit disconnecting a path to stop~~
communication between said computer and said storage volume, after said event is detected.

6. (Original) A computer system comprising a storage volume assigned for storing data, a computer for reading and writing data from and to said storage volume, a storage control unit for controlling communication between said computer and said storage volume, and a data protection apparatus for protecting data in said storage volume, wherein:

said data protection apparatus comprises:

an event detection unit for detecting an event occurrence; and
a path disconnection unit for instructing said storage control unit to stop communication between said computer and said storage volume, when said event detection unit detects an event.

7. (Currently Amended) A data protection apparatus for protecting data in a storage volume in a computer system, with said computer system comprising said storage volume assigned for storing data, a replicated volume assigned for storing data duplicated from said storage volume, and a storage control unit for controlling data transfer from said storage volume to said replicated volume, wherein said data protection apparatus comprises:

an event detection unit for detecting an event occurrence; and
a replication stopping unit for instructing said storage control unit to stop data transfer from said storage volume to said replicated volume, when said event detection unit detects an event;

said computer system further comprising a computer for reading and writing data from and to said storage volume;

an illegal intrusion detection unit for detecting an illegal intrusion into said computer;

wherein said event detection unit receives a detection of the illegal intrusion from said illegal intrusion detection unit; and

when said event detection unit receives the detection of the illegal intrusion,
said replication stopping unit instructs said storage control unit to stop data transfer
from said storage volume to said replicated volume.

8. (Canceled)

9. (Original) A data protection apparatus according to Claim 7, wherein:
said computer system further comprises a computer virus detection unit for
detecting a computer virus in said storage;

said event detection unit receives the detection of the computer virus from
said computer virus detection unit; and

when said event detection unit receives the detection of the computer virus,
said replication stopping unit instructs said storage control unit to stop data transfer
from said storage volume to said replicated volume.

10. (Currently Amended) A data protection method for protecting data in a storage
volume in a computer system, with said computer system comprising said storage
volume assigned for storing data, a computer for reading and writing data from and
to said storage volume, a replicated volume assigned for storing data duplicated from
said storage volume, and a storage control unit for controlling data transfer from said
storage volume to said replicated volume, wherein said data protection method
comprises steps of:

~~detecting an event occurrence~~ an intrusion into said computer; and
instructing said storage control unit to stop data transfer from said storage volume to said replicated volume, when said event- intrusion is detected.

11. (Currently Amended) A program for making an information processing apparatus perform data protection of a storage volume in a computer system, with said computer system comprising said storage volume assigned for storing data, a computer for reading and writing data from and to said storage volume, a replicated volume assigned for storing data duplicated from said storage volume, and a storage control unit for controlling data transfer from said storage volume to said replicated volume, wherein said program makes said information processing apparatus perform processes of:

~~detecting an event occurrence~~ that an intrusion into the computer has occurred; and

instructing said storage control unit to stop data transfer from said storage volume to said replicated volume, when said event- intrusion is detected.

12. (Currently Amended) ~~A storage medium that stores the~~ The program according to Claim 5 and further including a storage medium that stores the program and that
can be read by the information processing apparatus.

13. (Currently Amended) ~~A storage medium that stores the~~ The program according to Claim 11 and further including a storage medium that stores the program and that can be read by the information processing apparatus.

14. (Currently Amended) A computer system comprising a storage volume assigned for storing data, a replicated volume assigned for storing data duplicated from said storage volume, a storage control unit for controlling data transfer from said storage volume to said replicated volume, and a data protection apparatus for protecting data in said storage volume, wherein:

said data protection apparatus comprises:

an event detection unit for detecting an event occurrence; and

a replication stopping unit for instructing said storage control unit to stop data transfer from said storage volume to said replicated volume, when said event detection unit detects an event;

wherein said computer system further comprises an alteration detection unit that reads given data in said plurality of replicated volumes to detect respective differences between the given data; and

the event detected by said event detection unit is a detection result of the differences between the given data, with said detection result being received from said alteration detection unit.

15. (Original) A computer system according to Claim 14, wherein:

write data to said storage volume is transferred by said storage control unit to said replicated volume with a delay of a given time.

16. (Original) A computer system according to Claim 14, wherein:

as said replicated volume, a plurality of replicated volumes are provided; and
said storage control unit switches a transfer destination of write data of said storage volume, at given time intervals among said plurality of replicated volumes.

17. (Original) A computer system according to Claim 16, wherein:

data transferred to said plurality of replicated volumes is further transferred to another plurality of replicated volumes.

18. (Canceled)

19. (Currently Amended) A computer system according to Claim ~~18~~ 14, wherein:

said computer system further comprises a computer for reading and writing data from and to said storage volume;

said storage control unit further controls communication between said computer and said storage volume; and

said data protection apparatus instructs said storage controller to stop communication between said computer and said storage when said event detection unit detects said event.

20. (Currently Amended) A computer system comprising:

a storage apparatus comprising a storage volume assigned for storing data, a replicated volume assigned for storing data duplicated from said storage volume, a host computer for reading and writing data from and to said storage volume, a storage control unit for controlling communication between said host computer and said storage volume, and a data protection apparatus for protecting data in said storage volume, wherein:

said host computer detects an illegal intrusion and sends a notification of the detected illegal intrusion to said data protection apparatus;

said data protection apparatus receives said notification and gives said storage control unit an instruction to disconnect a path to stop communication between said computer and said storage volume; and

said storage control unit, receiving said instruction, rejects access from outside to the storage volume of said storage apparatus.